Toronto's Drug Checking Service

Results from 158 samples checked

April 20 - May 3, 2024

Key findings

- 21% of the expected¹ fentanyl samples⁵ were known to be **associated with an overdose**: almost all of these samples contained high-potency opioids (an opioid as strong as or stronger than fentanyl), and most contained a benzodiazepine-related drug and/or a veterinary tranquilizer
- 69% of the expected¹ fentanyl samples⁵ **contained multiple high-potency opioids**, including fentanyl, fluorofentanyl, and/or a methylfentanyl-related drug
- 65% of the expected¹ fentanyl samples⁵ **contained a benzodiazepine-related drug** 9% contained multiple benzodiazepine-related drugs
- 63% of the expected¹ fentanyl samples⁵ **contained fluorofentanyl** (up to 2 times stronger than fentanyl)
- 42% of the expected¹ fentanyl samples⁵ **contained a methylfentanyl-related drug** (up to 10 times stronger than fentanyl)
- 35% of the expected¹ fentanyl samples⁵ **contained a veterinary tranquilizer** 24% contained medetomidine and 12% contained xylazine
- 13% of the expected¹ fentanyl samples⁵ **did not contain fentanyl** most of these samples instead contained fluorofentanyl, some in combination with bromazolam (benzodiazepine-related)
- The significantly worsening contamination and unpredictability of the unregulated fentanyl supply
 over the past two weeks coincides with <u>a high number of suspected opioid overdose-related calls</u>
 <u>attended by Toronto Paramedic Services on April 30, as reported by Toronto Public Health</u>
- Amount of drugs found in expected¹ fentanyl drug samples²:

In 39 expected¹ fentanyl drug samples²:

3.7% was the average³ amount of fentanyl found

1.3 – 10.0% was the **range**⁴ **of fentanyl found** in half of the drug samples²

In 37 expected¹ fentanyl drug samples²:

2.9%	was the average ³ amount of fluorofentanyl found	1.1 – 8.1%	was the range ⁴ of fluorofentanyl found in half of the drug samples ²
In 38 e	expected ¹ fentanyl drug samples ² :		
1.5%	was the average ³ amount of bromazolam found	0.9 – 2.5%	was the range ⁴ of bromazolam found in half of the drug samples ²
In 7 ex	pected ¹ fentanyl drug samples ² :		
4.0%	was the average ³ amount of	1.9 – 4.6%	was the range ⁴ of xylazine

Expected fentanyl drug samples

- 85% (51) of the expected¹ fentanyl drug samples⁶ contained fentanyl and other drugs, including:
 - o 88% (45) contained caffeine
 - o 75% (38) contained at least one additional high-potency opioid (!):
 - 69% (35) contained fluorofentanyl (!)
 - 31% (16) contained a methylfentanyl-related drug (!)
 - o 73% (37) contained at least one benzodiazepine-related drug (!):
 - 69% (35) contained bromazolam (!)
 - 6% (3) contained flualprazolam (!)
 - 4% (2) contained flubromazepam (!)
 - o 27% (14) contained at least one veterinary tranquilizer (!):
 - 16% (8) contained medetomidine (!)
 - 14% (7) contained xylazine (!)
 - o 8% (4) contained acetyl fentanyl (!)

Unexpected noteworthy drugs found in other expected drug samples

- 9% (6) of the remaining drug samples,⁶ meaning drug samples² that weren't expected¹ to be fentanyl, **contained an unexpected noteworthy drug**, including:
 - o 33% (1) of expected¹ crack cocaine drug samples² contained phenacetin (!)
 - o 11% (2) of expected¹ cocaine drug samples² contained benzodiazepine-related drugs (!)
 - o 6% (1) of expected¹ cocaine drug samples² contained phenacetin (!)
 - One expected¹ MDMA drug sample² that <u>did not contain</u>⁸ MDMA contained benzodiazepinerelated drugs (!)
 - One expected¹ oxycodone (OxyContin) drug sample² that <u>did not contain</u>⁸ oxycodone contained N-pyrrolidino protonitazene/N-pyrrolidino isotonitazene (nitazene opioid) (!) learn more about the increase we are observing in the presence of nitazene opioids in

samples expected to be oxycodone (OxyContin), Percocet, hydromorphone (Dilaudid), hydrocodone, and oxymorphone

Not sure what some of these substances are?

View our drug dictionary: www.drugchecking.community/drug-dictionary/

Notes

- **1 | Expected (drug)**: When a sample is submitted to be checked, the drug that sample was bought or got as is recorded. We call it the "expected drug". Knowing the expected drug helps us tailor our harm reduction advice. It also helps us understand contamination to drugs rather than combinations of drugs (e.g., fentanyl was found in a heroin sample rather than fentanyl and heroin were found together).
- 2 | Drug samples: Could be a small amount of powder, crystals, rocks, blotter, or liquid, or a crushed bit of a pill.
- **3 | Average amount**: We arrange the amounts of a substance found as a proportion of the total fentanyl drug sample from smallest to largest, determine the median (i.e., the middle number), and use that number as the "average". For more information, view our <u>amount of substances found graph</u>.
- **4 | Range**: Known as the interquartile range, represents the middle 50% of the amounts of a substance found as a proportion of the total fentanyl drug sample. For more information, view our <u>amount of substances found graph</u>.
- **5 | Samples**: Includes both drugs and used drug equipment. Drugs could be a small amount of powder, crystals, rocks, blotter, or liquid, or a crushed bit of a pill. Used equipment could be a used cooker or filter, or leftover liquid from a syringe. For more information, view our <u>terms of service</u>.
- **6 | Reason for reporting only drug samples**: While Toronto's Drug Checking Service checks both drugs and used equipment, drug equipment like cookers are often re-used. The mass spectrometry technologies used for this drug checking service are so sensitive that very trace amounts of substances may be found. This means that when equipment is re-used, substances from past use may present in the results for the sample that is being checked. This can interfere with up-to-date drug market monitoring, so we've noted when we exclude used equipment from this report. For more information, view our <u>service and technology limitations</u>.
- **7 | Reporting similar substances together**: These substances have a very similar chemical structure, and it is not currently possible for Toronto's Drug Checking Service to differentiate between them. For this reason, we report these substances together. For more information, view our <u>drug dictionary</u>.
- **8** | Drug samples that unexpectedly contain high-potency opioids or benzodiazepine-related drugs and not the expected drug: Our reports highlight unexpected noteworthy drugs found in all checked drug samples. When high-potency opioids or benzodiazepine-related drugs are found unexpectedly in a drug sample and the expected drug is not present, we flag it but are hesitant to consider it contamination of the expected drug. Instead, we assume there is an issue with the expected drug: the person who sold or provided the drugs accidentally mixed up their drugs, the service user accidentally mixed up their drugs, or the expected drug was recorded incorrectly during sample collection. These samples require special consideration.

(!) | Unexpected noteworthy drug: "Noteworthy drugs" are drugs that (i) are linked to overdose or other adverse effects, (ii) are highly potent or related to highly potent drugs, or (iii) may not be desired by some service users. Noteworthy drugs are flagged when they are unexpectedly found in checked samples.

About Toronto's Drug Checking Service: <u>Toronto's Drug Checking Service</u> is a free and anonymous community-based public health service that aims to reduce the harms associated with substance use and, specifically, to prevent overdose by offering people who use drugs timely and detailed information on the contents of their drugs. Beyond educating individual service users, results for all samples are combined and analyzed to perform unregulated drug market monitoring, then translated and <u>publicly disseminated every other week</u> to communicate unregulated drug market trends and drug education to those who cannot directly access the service, as well as to inform care for people who use drugs, advocacy, policy, and research.

<u>Participating collection sites</u>: Casey House | Parkdale Queen West Community Health Centre (Parkdale and Queen West sites) | Regent Park Community Health Centre | Seaton House | South Riverdale Community Health Centre (KeepSix and Moss Park sites) | Street Health | The Neighbourhood Group (Kensington Market Overdose Prevention Site) | The Works at Toronto Public Health

<u>Participating analysis sites</u>: Centre for Addiction and Mental Health (Clinical Laboratory and Diagnostic Services) | St. Michael's Hospital (Department of Laboratory Medicine and Drug Checking Unit)

Toronto's Drug Checking Service is coordinated by a small central team that operates from within the Drug Checking Unit at St. Michael's Hospital. The central team is also responsible for conducting unregulated drug market monitoring and developing and disseminating relevant drug information.

Our work would not be possible if people who use drugs did not access our service and, as a result, advocate for themselves and help develop solutions that impact them. We thank the community of people who use drugs in Toronto, and elsewhere, who provide ongoing feedback on the design and implementation of our program, as well as our members, partners and collaborators, and funders for their ongoing commitment.

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